

FIG.1

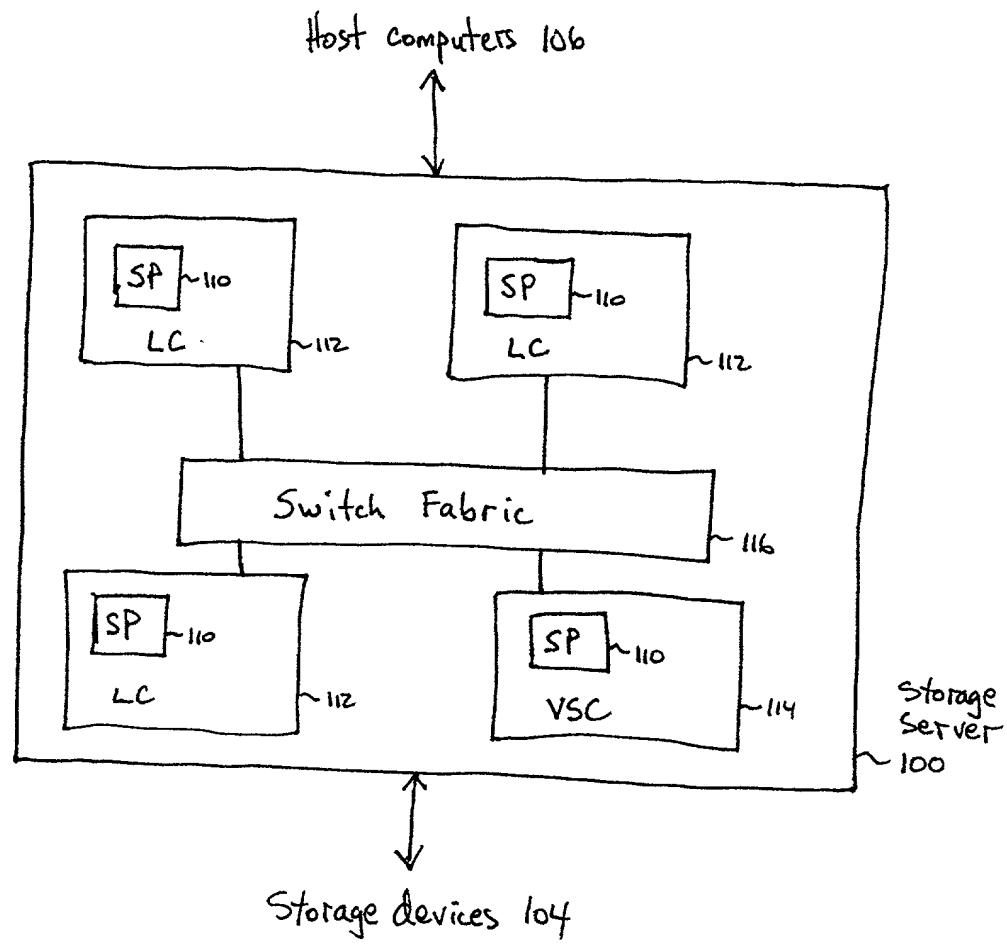


FIG. 2 A

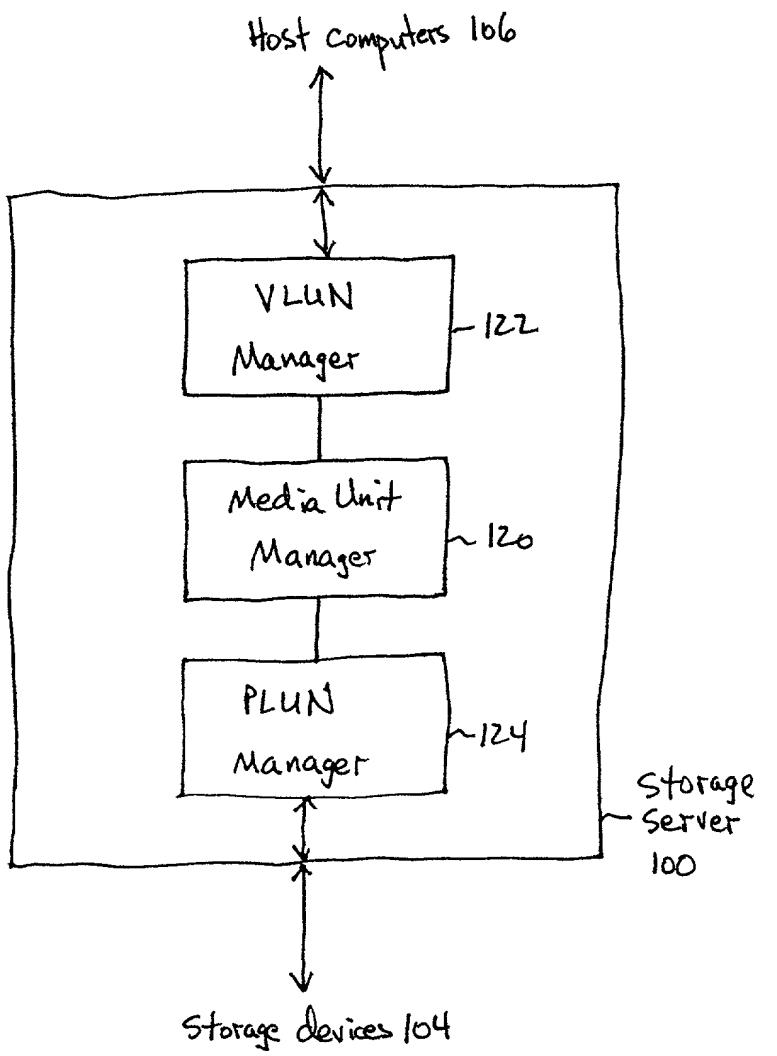


FIG.2B

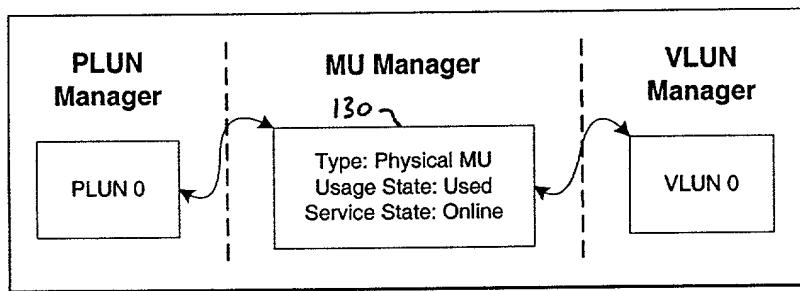


FIG. 3

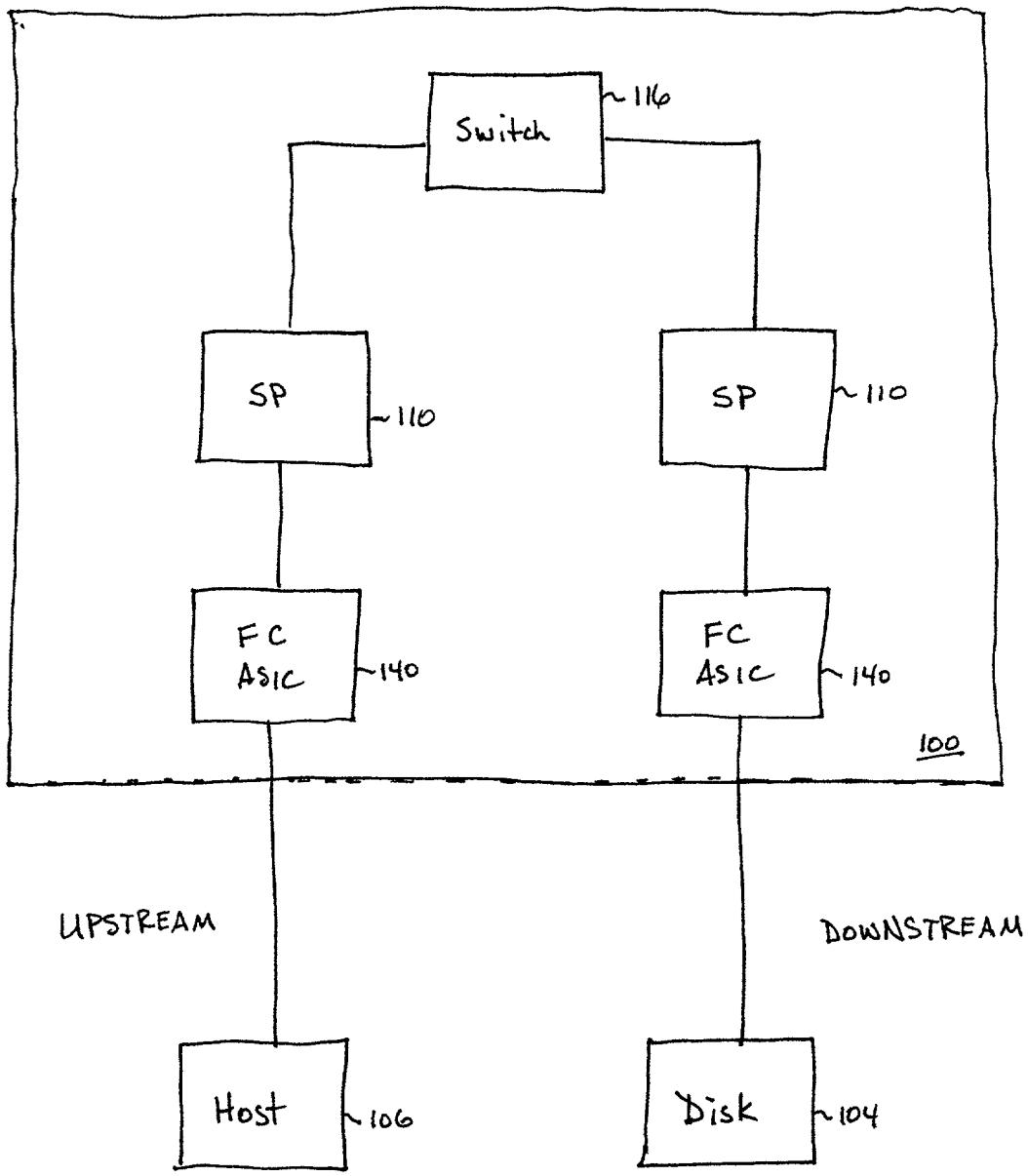


FIG.4

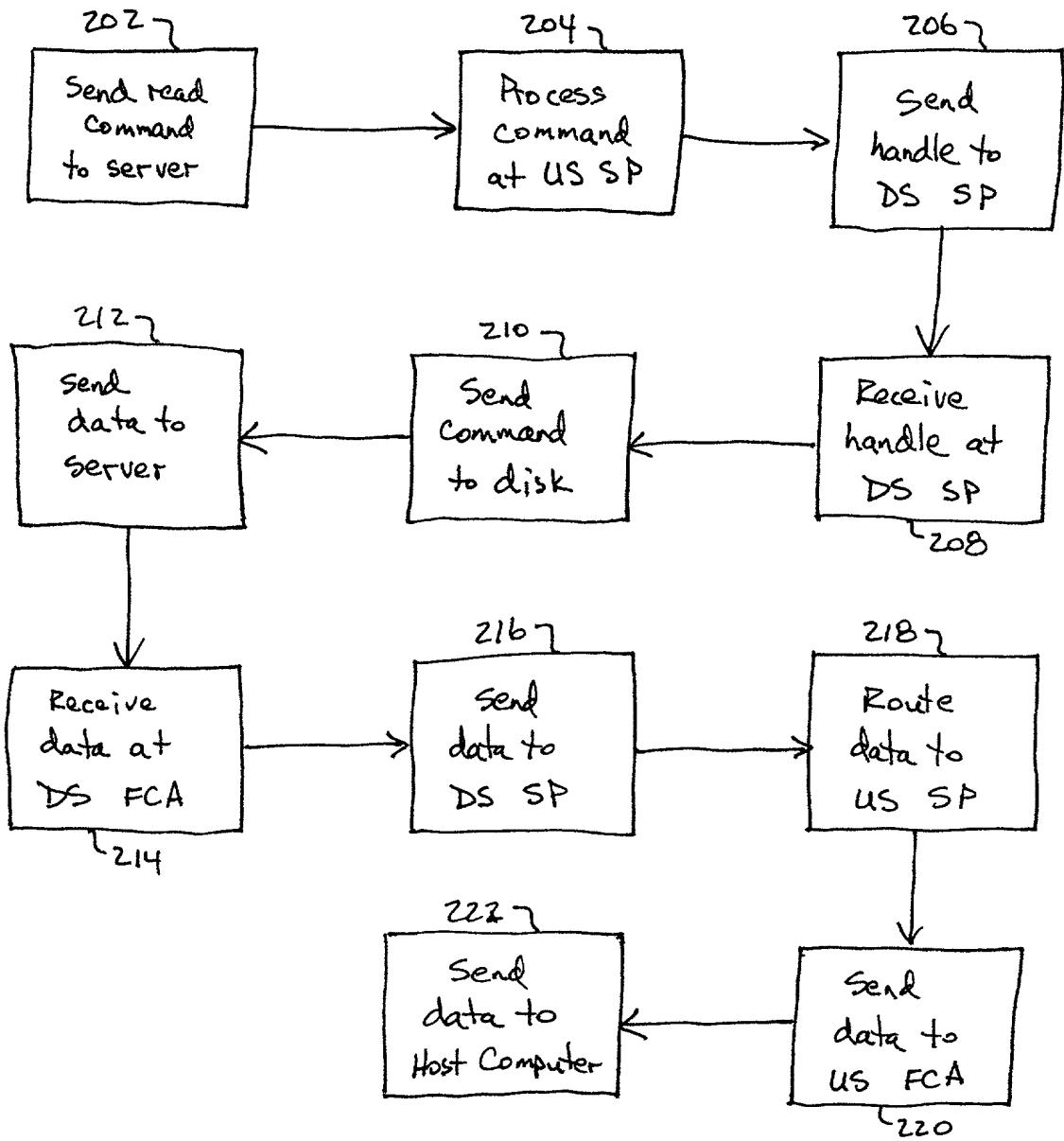


FIG. 5

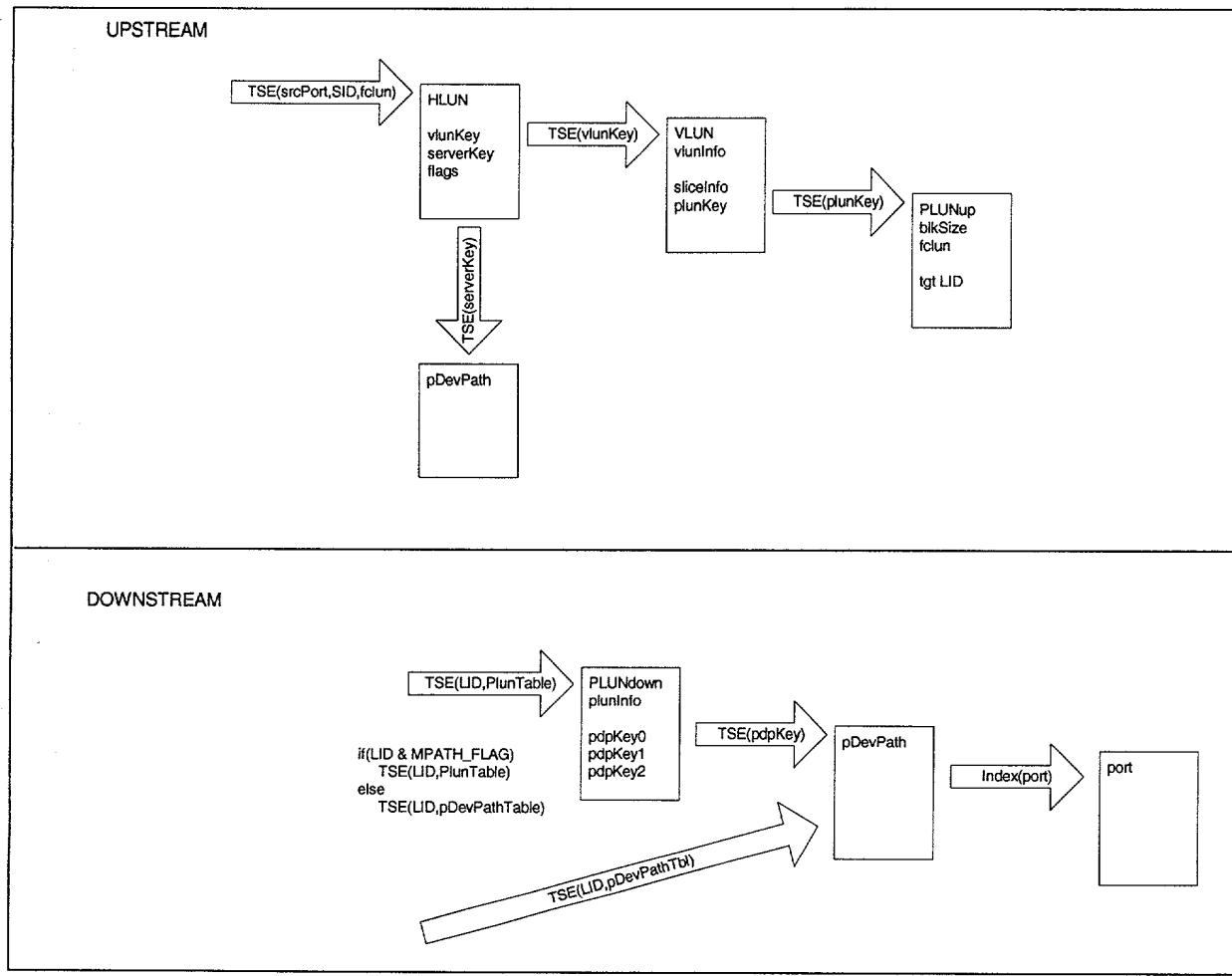
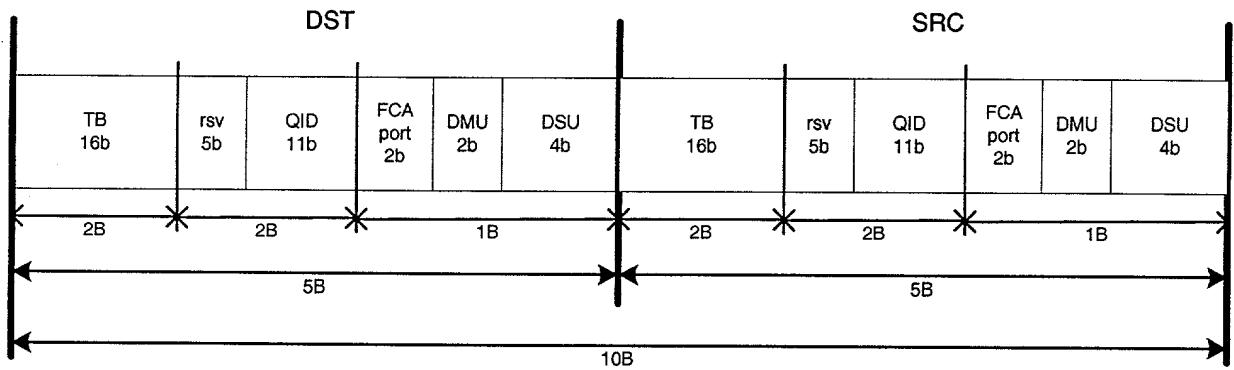


FIG. 6



310 ↗

FIG. 7

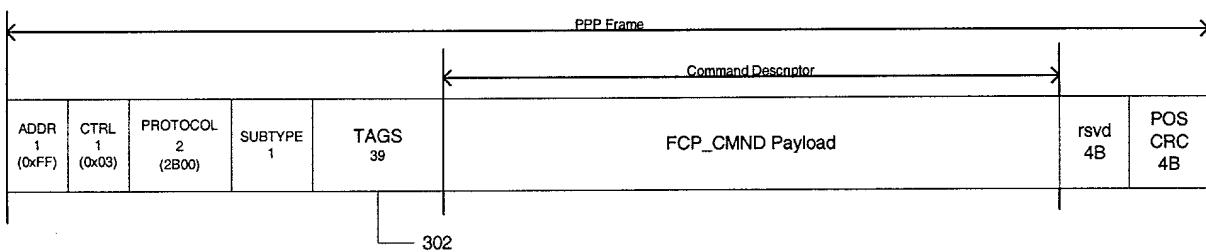


FIG. 8

300

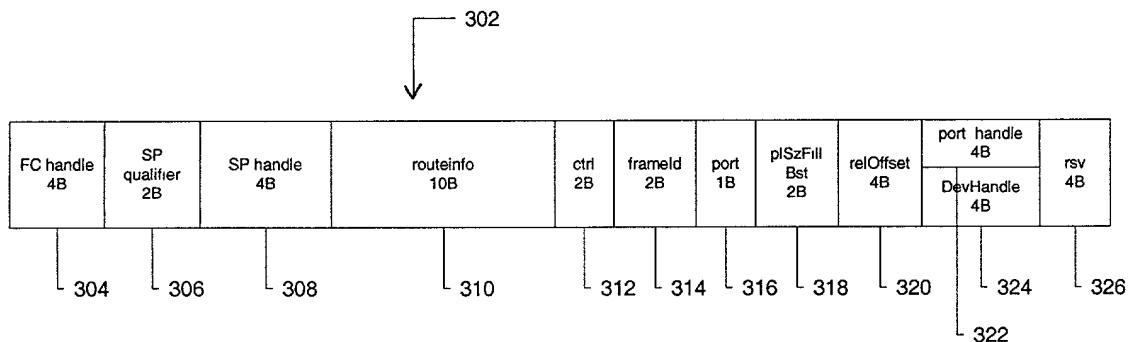
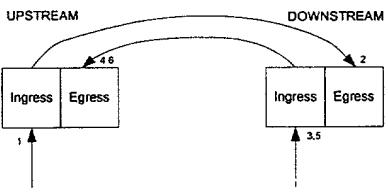
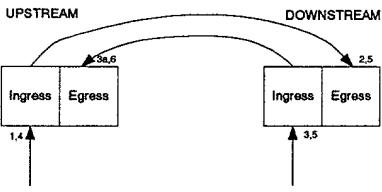


FIG. 9



UPSTREAM INGRESS COMMAND (1)	DOWNSTREAM EGRESS COMMAND (2)	DOWNSTREAM INGRESS DATA (3)	UPSTREAM EGRESS DATA (4)	DOWNSTREAM INGRESS STATUS (5)	UPSTREAM EGRESS STATUS(6)
FCP 1. Allocate IoCB 2. Copy IoCB header to scratch1 3. Extract ownId,peerId into IoCB	FCP 1 Allocate IoCB 2 Save srcBlade from FCB 3 Respond with IoCB handle back to upstream	FCP 1 Look up IoCB	FCP 1 Look up IoCB	FCP 1 Look up IoCB 2 Ship to upstream status 3 Deallocate IoCB	FCP 1 Look up IoCB
SM 1. Look for hLun(SID,FCLUN,port) 2. Save startLBA,numBlks		SM 1 Update byte counts	SM 1 Update byte counts		SM 1. Build response code
LM 1. From HLUN, look for VLUN 1. Find affected PLUN slice and insert the pHandle into frame header. 2. Insert target blade into FCBpage 3. Insert target E-DS or target DMU 4. Updates startLBA, numBlks SM 1. Build CDB in datapool	LM 1 Depending on pHANDLE MCAST bit, look up the PLUN OR look up pDevpath 2 Look up pDevpath if not yet resolved 3 Look up OWN FCPORT table 4 Update return registers for FCP to indicate target D_ID and source S_ID				
FCP 1. Send command frame downstream	FCP 1. Update the FC header 2. Send command frame out to wire	FCP 1 Ship data upstream	FCP 1 Ship data out to wire		FCP 1. Ship to server status 2. Deallocate IoCB

FIG. 10



UPSTREAM INGRESS COMMAND (1)	DOWNSTREAM EGRESS COMMAND (2)	DOWNSTREAM XFER RDY(3)	UPSTREAM INGRESS DATA(4)	DOWNSTREAM EGRESS DATA(5)	DOWNSTREAM INGRESS STATUS (5)	UPSTREAM EGRESS STATUS(6)
FCP 1. Allocate IoCB 2. Copy IoCB header to scratch1 3. Extract ownId, peerId into IoCB	FCP 1 Allocate IoCB 2 Save srcBlade from FCB	FCP 1 Look up IoCB 2 Send XFER_RDY upstream with command handle	FCP 1 Look up IoCB	FCP 1 Look up IoCB	FCP 1 Look up IoCB 2 Ship to upstream status 3. Deallocate IoCB	FCP 1 Look up IoCB
SM 1. Look for hLun(SID,FCLUN,port) 2. Save startLBA,numBlks			SM 1 Update byte counts	SM 1 Update byte counts		SM 1 Build response code
LM 1. Get pLun and insert the pHandle into frame header. 2. Insert target blade into FCBpage 3. Updates startLBA, numBlks	LM 1 Look up the pLun and pick a path 2 Save pLun and path index into IoCB					
SM 1. Build CDB in datapool						
FCP 1. Send command frame downstream	FCP 1 Send command frame out to wire		FCP 1 Ship data downstream	FCP 1 Ship data out to wire		FCP 1 Ship to server status 2 Deallocate IoCB

FIG. 11

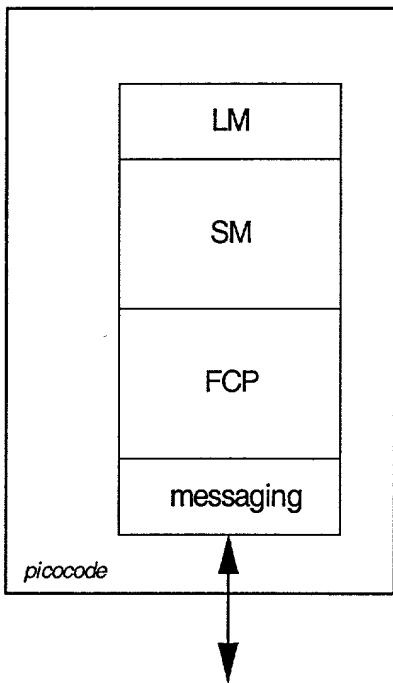


FIG. 12

RD Command

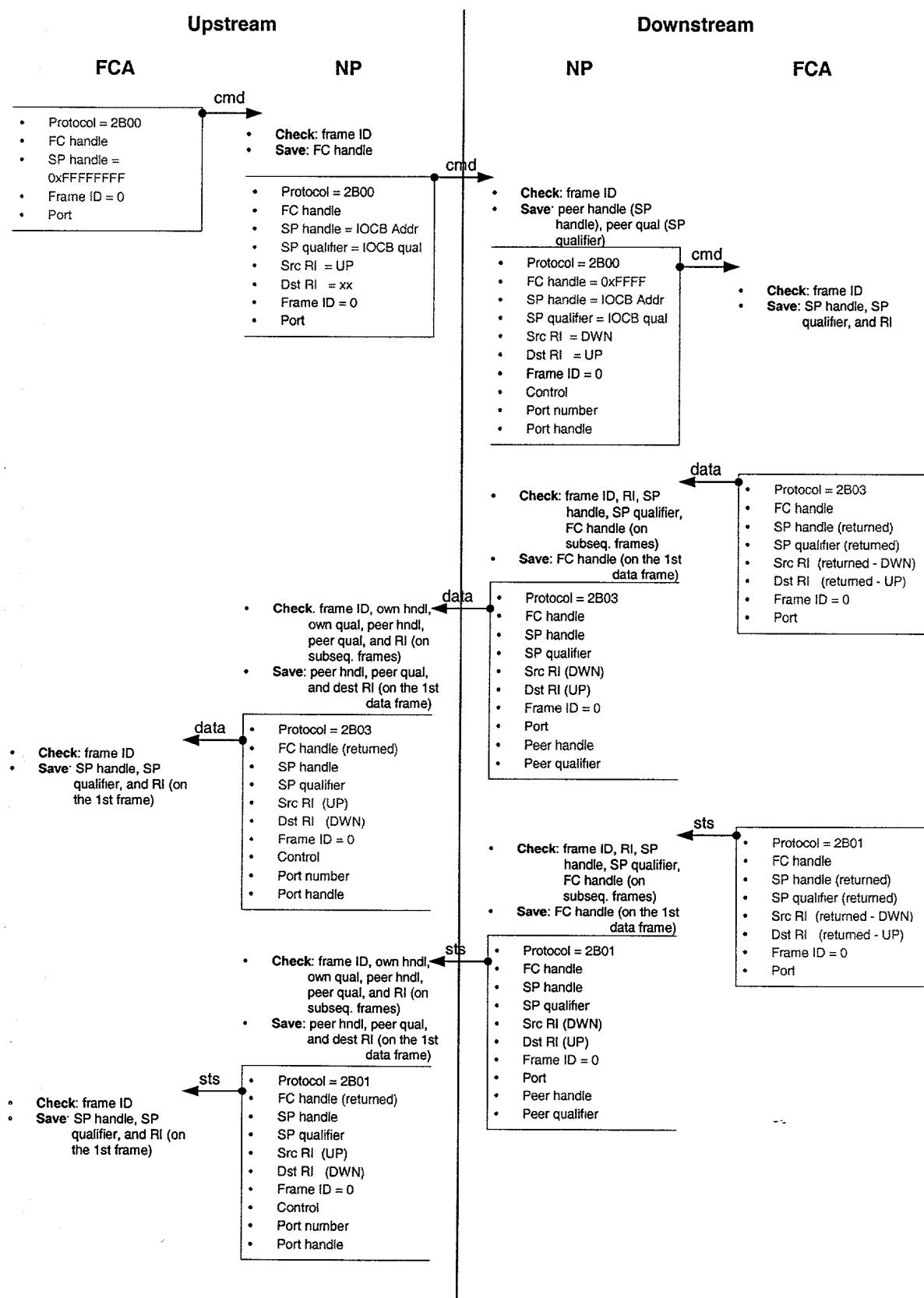


FIG. 13

WR Command

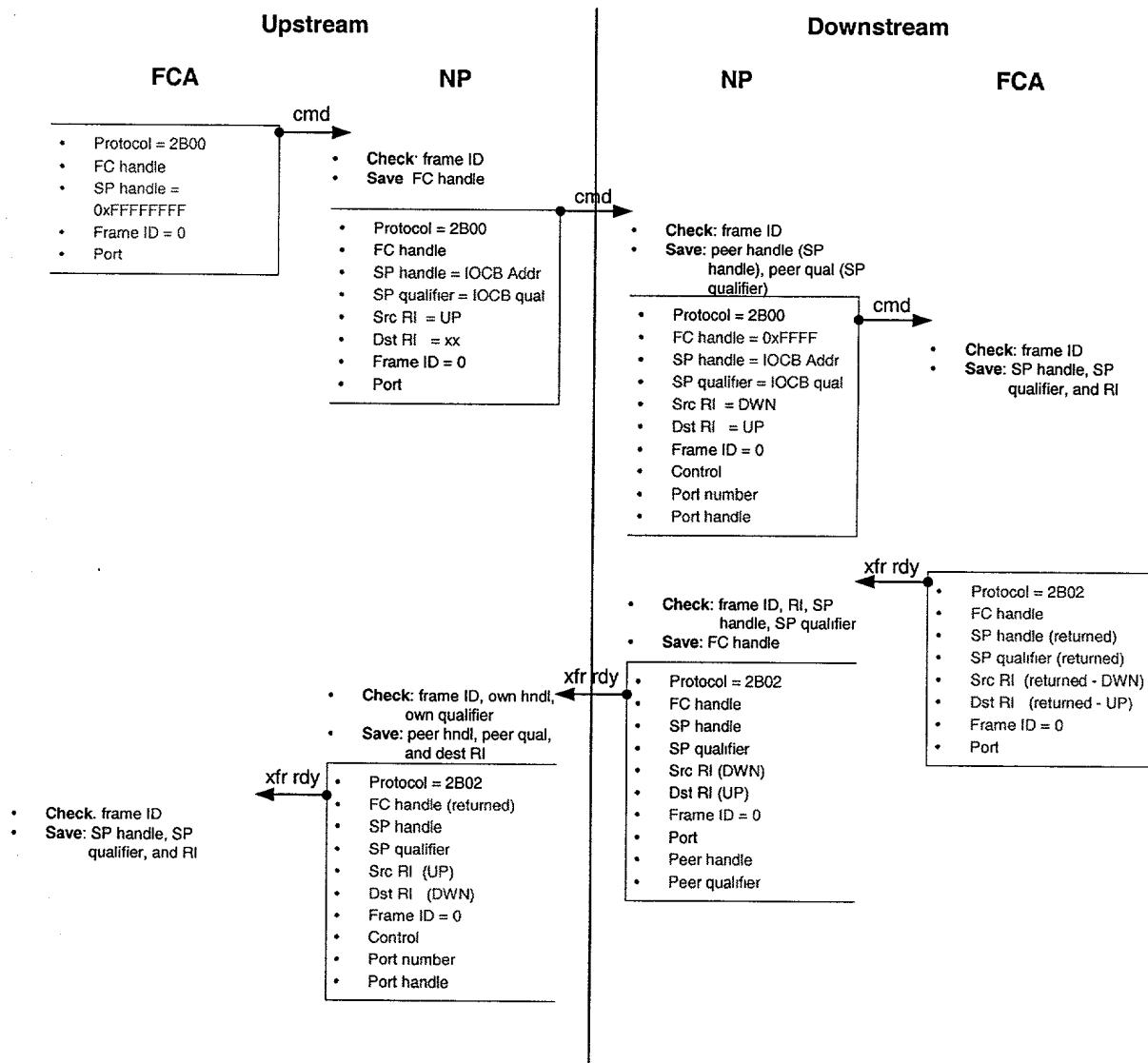


FIG. 14